Proyecto Isomorfismo, Batería de Pruebas

José Alvarez, Oscar Lemus y Juan Aragón

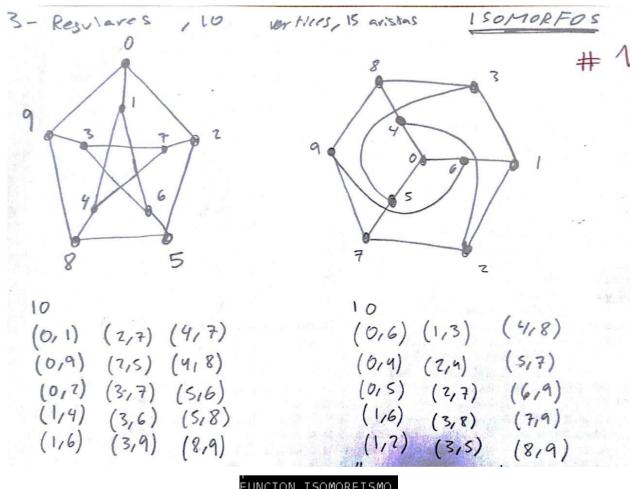
Universidad Rafael Landívar

"Divide y vencerás..."

-Maquiavelo (Julio Cesar)

"Grafo1A.txt"

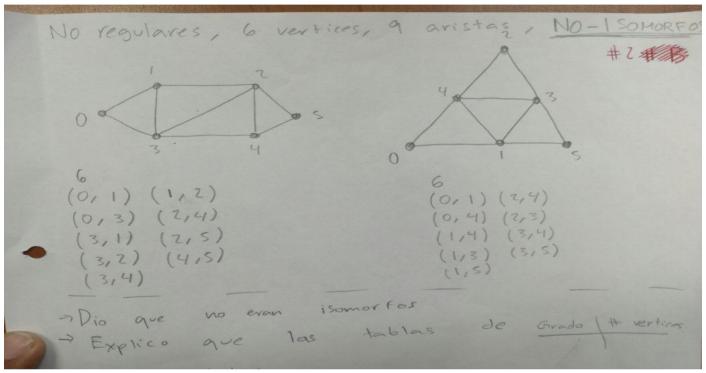
"Grafo1B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 0
1 -> 6
2 -> 4
3 -> 7
4 -> 1
5 -> 8
6 -> 9
7 -> 2
8 -> 3
9 -> 5
```

"Grafo2A.txt"

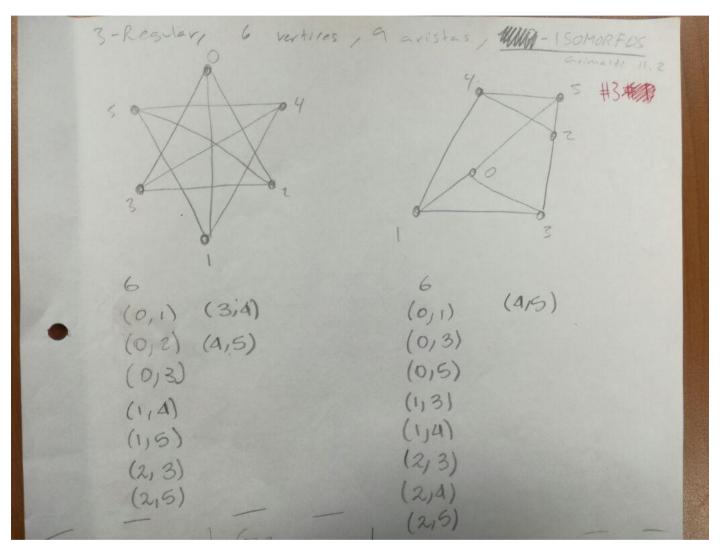
"Grafo2B.txt"



```
GRAPH A:
 - Vertices Quantity: 6
 - Edges Quantity: 9
   Vertex per Degree:
    Degree |
             # of Vertex
      0
                  0
                  0
      2
      4
 GRAPH B:
 - Vertices Quantity: 6
 - Edges Quantity: 9
  - Vertex per Degree:
             # of Vertex
    Degree
                  0
      0
                  0
      1
      2
                  3
                  0
Vertex Per Degree tables don't match
THEREFORE, GRAPHS ARE NOT ISOMORPHIC
```

"Grafo3A.txt"

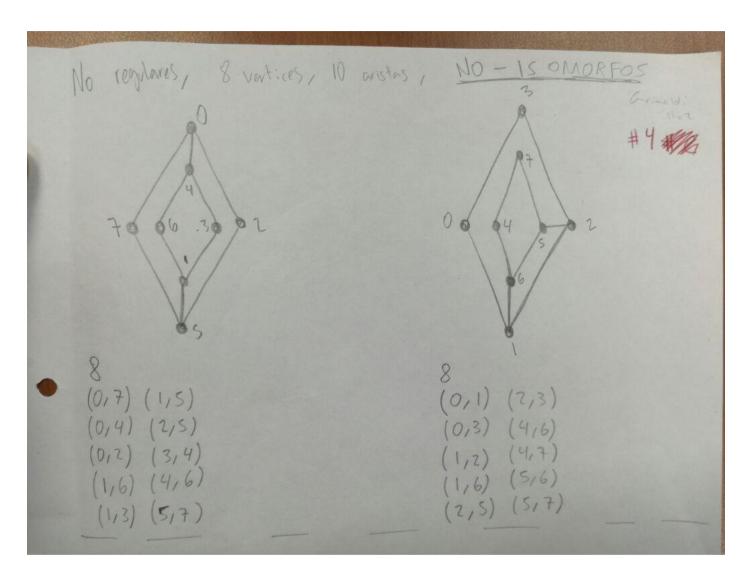
"Grafo3B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 0
1 -> 5
2 -> 1
3 -> 3
4 -> 2
5 -> 4
```

"Grafo4A.txt"

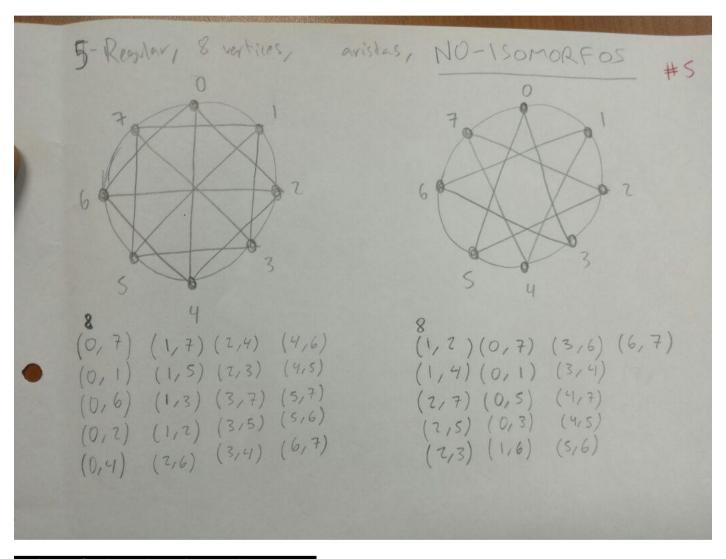
"Grafo4B.txt"



. ISOMORPHISM FUNCTION NOT FOUND, GRAPHS ARE NOT ISOMORPHIC

"Grafo5A.txt"

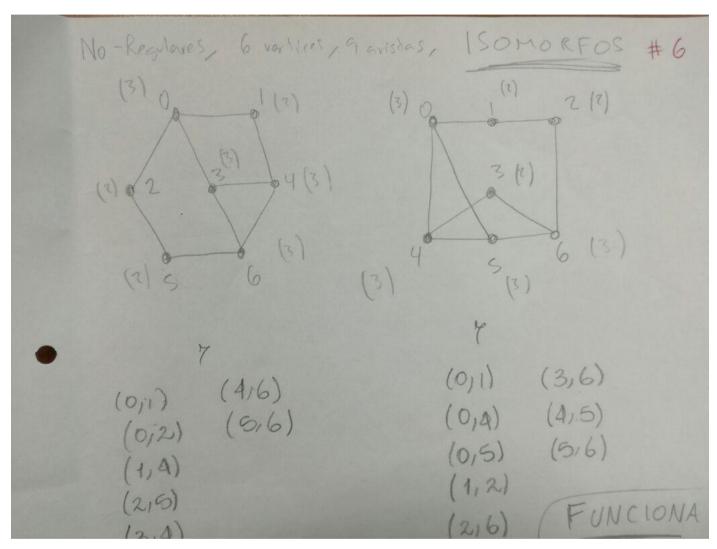
"Grafo5B.txt"



Number of edges doesn't match Vertex Per Degree tables don't match THEREFORE, GRAPHS ARE NOT ISOMORPHIC

"Grafo6A.txt"

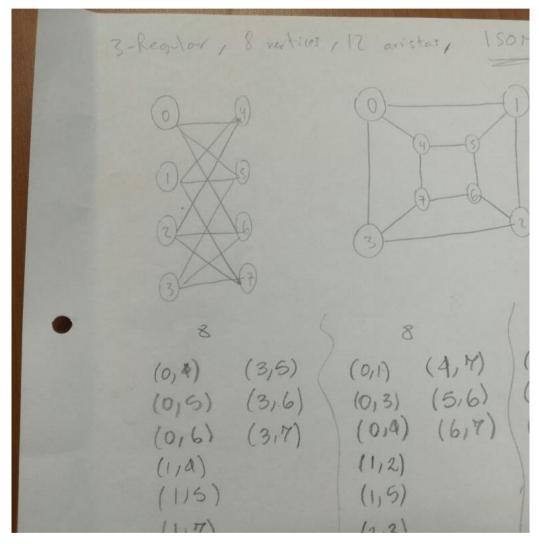
"Grafo6B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
Ø -> 6
1 -> 3
2 -> 2
3 -> 5
4 -> 4
5 -> 0
```

"Grafo7A.txt"

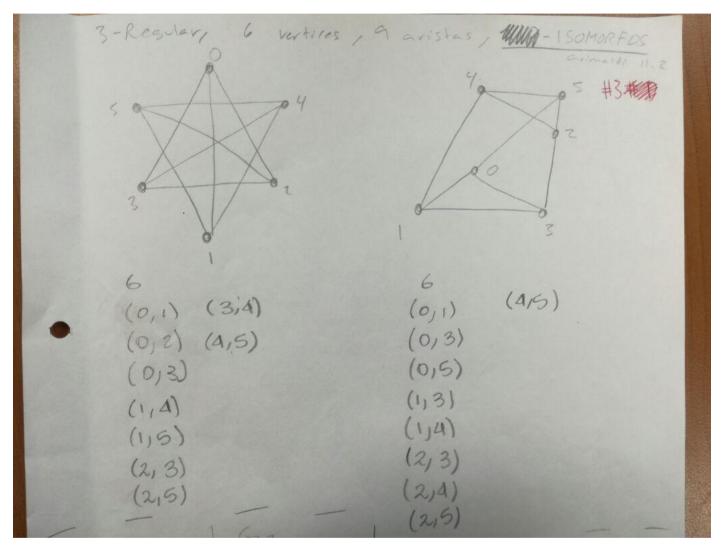
"Grafo7B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 0
1 -> 2
2 -> 5
3 -> 7
4 -> 1
5 -> 3
6 -> 4
7 -> 6
```

"Grafo8A.txt"

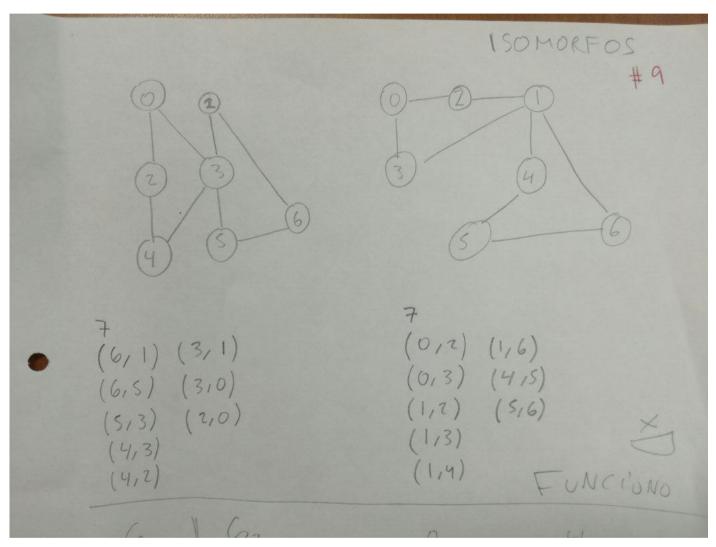
"Grafo8B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
Ø -> Ø
1 -> 2
2 -> 5
3 -> 3
4 -> 4
5 -> 1
```

"Grafo9A.txt"

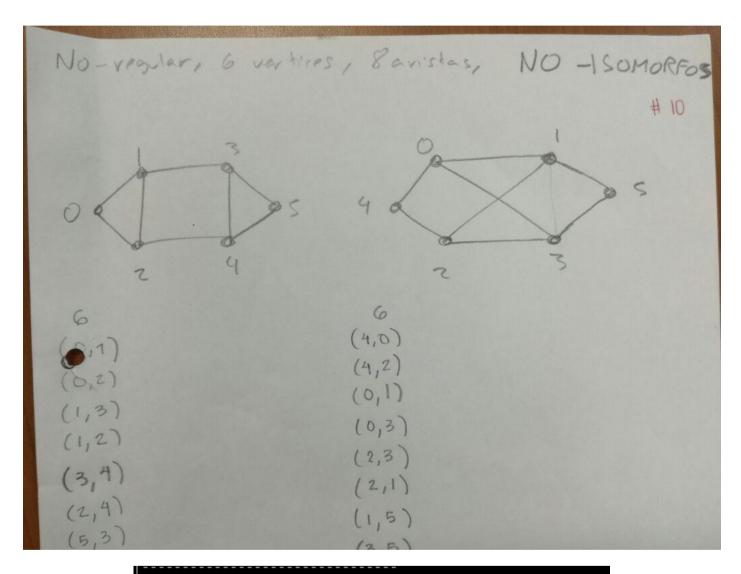
"Grafo9B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 4
1 -> 3
2 -> 5
3 -> 1
4 -> 6
5 -> 2
6 -> 0
```

"Grafo10A.txt"

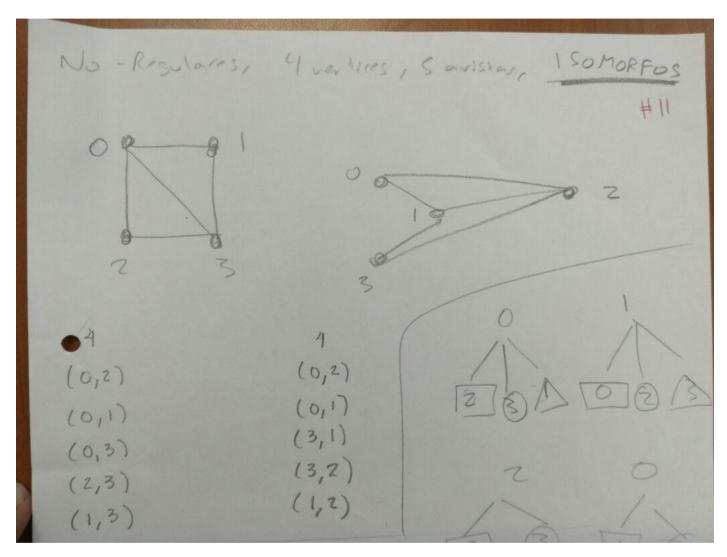
"Grafo10B.txt"



ISOMORPHISM FUNCTION NOT FOUND, GRAPHS ARE NOT ISOMORPHIC

"Grafo11A.txt"

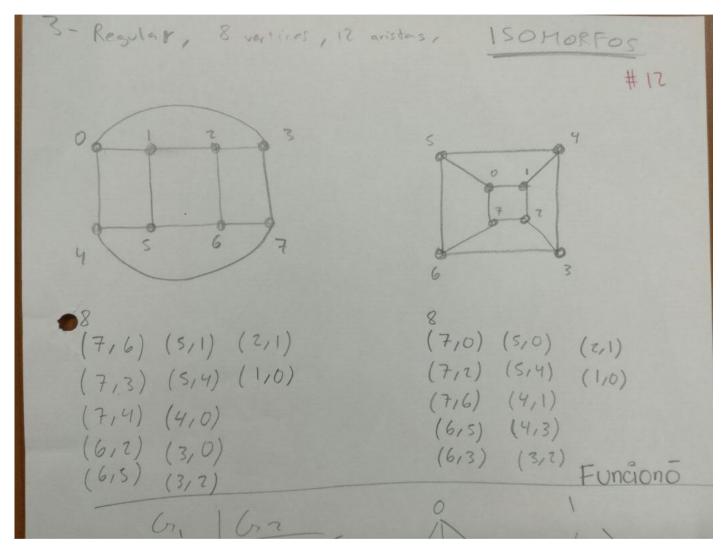
"Grafo11B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 1
1 -> 3
2 -> 0
3 -> 2
```

"Grafo12A.txt"

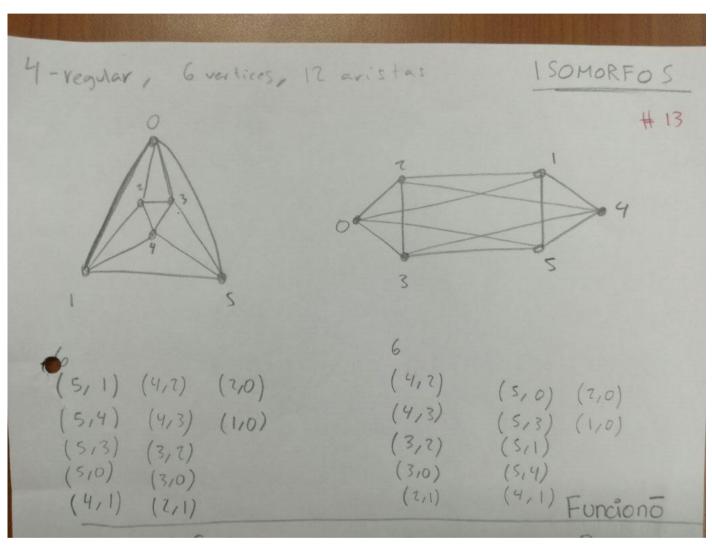
"Grafo12B.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 1
1 -> 2
2 -> 7
3 -> 0
4 -> 4
5 -> 3
6 -> 5
```

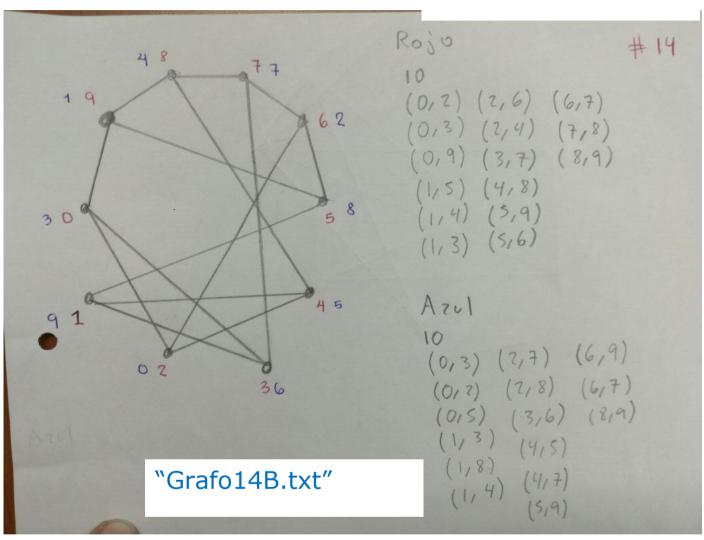
"Grafo13A.txt"

"Grafo13B.txt"

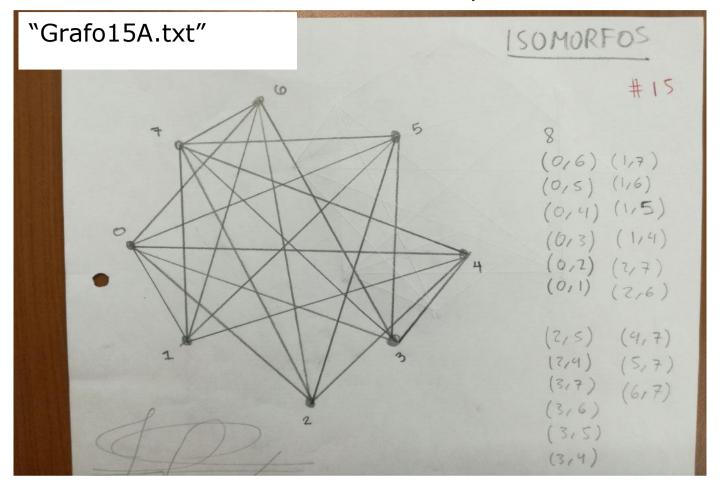


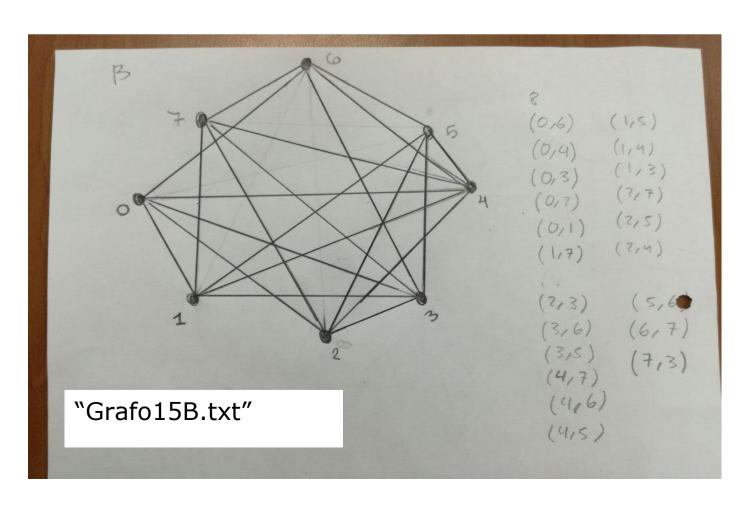
```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 0
1 -> 2
2 -> 1
3 -> 5
4 -> 4
5 -> 3
```

"Grafo14A.txt"



```
FUNCION ISOMORFISMO
G1 -> G2
0 -> 1
1 -> 7
2 -> 3
3 -> 4
4 -> 6
5 -> 2
6 -> 0
7 -> 5
8 -> 9
```





FUNCION ISOMORFISMO

G1 -> G2

0 -> 1

1 -> 5

4

0

7

-> 6

-> 2